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Senior Staff Scientist

Declassification Review by NGA/DoD

Approved For Release 2005/11/29: CIA-RDP78B05171A000500020056-5  August 3, 1970  August 3, 1970  August 3, 1970  August 3, 1970  This is the third monthly contract technical progress report covering the effort performed on Contract No	•	en de	المراجع المراج	F #	138
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THIS MATERIAL CONTAINS IMPORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPICIMANT LAWS, TITLE 18. USC. SICS. 793 AND 791, THE TABLES SICH OR DECLASAPPROVED FOR Release 2005/11/21: CIA-RDP78B0517/14000500020050x8UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

2

processing to viewing devices. During this month we have initiated work in establishing desired characteristics of filters and determining low-noise filter production techniques. This step has been clearly delineated because of the availability and application of the micro-optical benches and the initial experiments conducted thereon. Filters generated on a grainy emulsion introduce coherent speckle patterns in the output image plane. The reduction of noise can be obtained by using grainless materials for filter production or by unique methods for application of the filters. These are being investigated and specifications will be delineated. Experiments are presently being conducted with conventional and non-conventional illumination sources and with 4x and 10x microscope objectives combined with a 10x eyepiece.

During the coming month the laboratory effort at the customer's facility will be continued according to the schedule projected in the activity summary 2201201-AS-10 dated 9 July 1970. We will also be applying a combined effort to specify filters, correlating the specifications of macro and micro scaled high frequency enhancement filters. The micro-optical work will, during the coming month, be continued in a laboratory effort to demonstrate high frequency image enhancement. Also, a review of the first milestone period and recommendations will be made in the next monthly letter report, based on the schedule documented in the proposal.

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